

Climate change and population growth in Timor Leste: Implications for food security

Author(s): Molyneux N, da Cruz GR, Williams RL, andersen R, Turner NC

Year: 2012

Journal: Ambio. 41 (8): 823-840

Abstract:

The climate in Timor Leste (East Timor) is predicted to become about 1.5 degrees C warmer and about 10 % wetter on average by 2050. By the same year, the population is expected to triple from 1 to 2.5-3 million. This article maps the predicted changes in temperature and rainfall and reviews the implications of climate change and population growth on agricultural systems. Improved cultivars of maize, rice, cassava, sweet potato and peanuts with high yield performance have been introduced, but these will need to be augmented in the future with better adapted cultivars and new crops, such as food and fodder legumes and new management practices. The requirements for fertilizers to boost yields and terracing and/or contour hedgerows to prevent soil erosion of steeply sloping terrain are discussed. Contour hedges can also be used for fodder for improved animal production to provide protein to reduce malnutrition.

Source: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3492559

Resource Description

Communication: M

resource focus on research or methods on how to communicate or frame issues on climate change; surveys of attitudes, knowledge, beliefs about climate change

A focus of content

Communication Audience: M

audience to whom the resource is directed

Public

Exposure: M

weather or climate related pathway by which climate change affects health

Food/Water Security

Food/Water Security: Agricultural Productivity, Livestock Productivity

Geographic Feature:

resource focuses on specific type of geography

Climate Change and Human Health Literature Portal

Ocean/Coastal, Valley

Geographic Location: 🛚

resource focuses on specific location

Non-United States

Non-United States: Asia

Asian Region/Country: Other Asian Country

Other Asian Country: Timor Leste

Health Co-Benefit/Co-Harm (Adaption/Mitigation):

□

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: M

specification of health effect or disease related to climate change exposure

Malnutrition/Undernutrition

Intervention: M

strategy to prepare for or reduce the impact of climate change on health

A focus of content

Medical Community Engagement:

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

mitigation or adaptation strategy is a focus of resource

Adaptation

Population of Concern: A focus of content

Population of Concern: M

populations at particular risk or vulnerability to climate change impacts

Low Socioeconomic Status

Resource Type: M

format or standard characteristic of resource

Review

Timescale: M

Climate Change and Human Health Literature Portal

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment: №

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content